

Having described my invention , I claim:

- 1 - Retrofit fluorescent light tube fixture apparatus comprising:
  - a - a light reflector ,
  - b - a formed plastic backing for said light reflector ,
  - c - said formed plastic backing and said light reflector having the same cross section contour,
  - d - said light reflector intimately attached to said formed plastic backing by means of edges of said light reflector, fitting in slots in outer edges of said formed plastic backing.
  - e - fluorescent light tube sockets mounted on each end of said light reflector,
  - f - a ballast mounted and held in position by friction fit between side walls of channel on said formed plastic backing ,
  - g - wires from said ballast connected to said fluorescent light tube sockets mounted at ends of said light reflector ,
  - h - the above assembly identified as a sub-assembly,
  - i - said sub-assembly attached to a ceiling mount channel, by means of slots in side walls of said formed plastic backing, said slots in side walls fitting over downward extending edges of said ceiling mount channel,
  - j - two live plastic hinges and each said live plastic hinge connected to a side wall of said formed plastic backing and said formed plastic backing for said light reflector,
  - k - electric power lines extending from ceiling through aperture in said ceiling mount channel, to said ballast,
  - l - screw fasteners extending through said side walls of said formed plastic backing, and said downward extending edges of said ceiling mount channel,,  
and,

-ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS 53073  
REG. #28958  
TEL: 920 892 8556  
FAX: 920 892 8557

**FILE # RE-1-03**

**DATE: 02/08/2004**

Page 13

**PAPER # 1**

m - fluorescent light tubes installed in said fluorescent light tube sockets to complete a retrofit fluorescent light tube fixture apparatus.

---

- 2 - A retrofit fluorescent light tube fixture apparatus of claim 1, further comprising :
- a - an inverted double wave shape cross section contour of said fluorescent light reflector
  - b - an inverted double wave shape cross section contour of said formed plastic backing intimately joined to said inverted double wave shape cross section contour of said fluorescent light reflector
  - c - said fluorescent light tube sockets mounted on ends of inverted double wave shape cross section trough and,
  - d - said fluorescent light tubes mounted in said fluorescent light tube sockets in said inverted wave shape cross section trough .
-

-ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS 53073  
REG. #28958  
TEL: 920 892 8556  
FAX: 920 892 8557

**FILE # RE-1-03**

**DATE: 02/08/2004**

Page 15

**PAPER # 1**

- 3 - A retrofit fluorescent light tube fixture apparatus of claim 1, further comprising:
- a - said light reflector selected from the group consisting of aluminum, steel, stainless steel, and chrome plated steel.
-

-ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS 53073  
REG. #28958  
TEL: 920 892 8556  
FAX: 920 892 8557

**FILE # RE-1-03**

**DATE: 02/08/2004**

Page 16

**PAPER # 1**

- 4 - A retrofit fluorescent light tube fixture apparatus, of claim 1, further comprising:
- a - a formed plastic backing, selected from the group consisting of rigid polyvinylchloride, polypropylene, polycarbonate, and polyethylene.
-

-ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS 53073  
REG. #28958  
TEL: 920 892 8556  
FAX: 920 892 8557

**FILE # RE-1-03**

**DATE: 02/08/2004**

Page 17

**PAPER # 1**

- 5 - A retrofit fluorescent light tube fixture apparatus of claim 1, further comprising:
- a - a live plastic hinge selected from the group consisting of flexible polyvinylchloride, polypropylene, polycarbonate, and polyethylene.
-

-ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS 53073  
REG. #28958  
TEL: 920 892 8556  
FAX: 920 892 8557

FILE # RE-1-03

DATE: 02/08/2004

Page 18

PAPER # 1

- 6 - A retrofit fluorescent light tube fixture apparatus of claim 1, further comprising :  
said ceiling mount channel formed of material selected from the group consisting of  
metal and plastic.

X 

INVENTOR: NEAL R. VERFUERTH

642 WESTERN AVE.

FEB 09 2004

RANDOM LAKE, WIS. 53075



BY: ROBERT T. JOHNSON  
REGISTERED PATENT AGENT LLC  
603 COLLINS ST.  
PLYMOUTH, WIS. 53073  
REG. NO. 28,958